

JAN 29 2007

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Examiner: AHN, Sam K.

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Phone: (571) 273-3044

Pages: Cover + 2 + 1 = 4

Date: January 29, 2007

From: Georgann S. Grunebach  
Reg. No. 33,179Fax: (310) 964-0941  
Phone: (310) 964-4615

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\_\_\_\_\_  
Georgann S. Grunebach, Reg. No. 33,179  
(Name of Applicant, Assignee or Registered Representative)

January 29, 2007  
\_\_\_\_\_  
Date  
(Date of Facsimile Transmission)

Re: Serial No. 10/519,322

Filed: December 23, 2004

Inventors: Ernest Chen et al.

For: IMPROVING HIERARCHICAL 8PSK PERFORMANCE

Attorney Docket No.: PD-202109

Transmitted herewith: INFORMATION DISCLOSURE STATEMENT (2 pages)

FORM PTO 1449 (1 page)

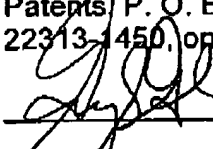
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Patent  
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen et al. : I hereby certify that this correspondence is  
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: Georgann S. Grunebach  
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: Date: January 29, 2007

Serial No.: 10/519,322  
Filing Date: 12-23-2004

For: IMPROVING HIERARCHICAL  
8 PSK PERFORMANCE

Group Art Unit: 2611  
Examiner: ANH, Sam K.

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. It is respectfully requested that the references be considered and made of record in the application identified above.

This statement should be considered because it is being submitted before the mailing of a first Office action on the merits under 37 C.F.R. §1.97(b)(3). Accordingly, it is submitted that no fee is due in this matter.

However, if it is determined that any appropriate fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

Serial No. 10/519,322.....Page 2

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

By:

  
Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.  
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P. O. Box 956  
El Segundo, CA 90245

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January 29, 2007

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Substitute for form PTO/SB/08A  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Complete if Known	
	Application Number	10/519,322
	Filing Date	December 23, 2004
	First Named Inventor	Ernest Chen
	Art Unit	2611
	Examiner Name	AHN, Sam K.
Date:	January 29, 2007	
Sheet 1 of 1	Attorney Docket Number	PD-202109

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2006/0013333	01-2006	Chen, Ernest C.	
		US-6,369,648	04-2002	Kirkman, George F.	
		US-6,477,398	11-2002	Mills, Randell L.	
		US-3,076,180	01-1963	Havens et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.